

DR 1336 Feb 84



AD-A140 879

METEOROLOGICAL DATA REPORT

19321AT MLRS
Missile Number 5345, 5348, 5346,
5349, 5347, 5350
Round Number 569/FB-12 Thru 574/FB-17
17 February 1984

by

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Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND



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24. AGSTRACT (Cantillars on severas olds if measuremy and identify by block maples)	
Meteorological data gathered for the launching of t	he 19321AT MLRS, Missile
Number 5345, 5348, 5346, 5349, 5347, 5350, Round Nu	mber 569/FB-12 Thru 574/FB-17
are presented in tabular form.	Į
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		CONTENTS	PAGE
INT.	RODUCI	[10N	1
DIS	cussic) 	1
en:	ERAL A	AREA MAP	2
LAU	nch ai	REA DIAGRAM	3
CAB	LES:		
	1.	Surface Observation taken at 0917 MST at Tula Gate	4
	2.	T-Time Pilot-Balloon Measured Wind Data	5
	3.	Aiming and T-Time Met Messages	6
	4.	RITA Significant Level Data at 0715 MST	7
	5.	RITA Upper Air Data at 0715 MST	8
	6.	RITA Mandatory Levels at 0715 MST	10
	7.	LANA Significant Level Data at 0730 MST	11
	8.	LANA Upper Air Data at 0730 MST	i2
	9.	LANA Mandatory Levels at 0730 MST	14
	10.	RITA Significant Level Data at 0917 MST	15
	11.	RITA Upper Air Data at 0917 MST	16
	12.	RITA Mendatory Levels at 0917 MST	18
	13.	LANA Significant Level Data at 0917 MST	19
	14.	LANA Upper Air Data at 0917 MST	20
	15	TAWA Mandaham Tauala an A017 MM	20



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INTRODUCTION

19321 AT MLRS, Missile Numbers 5345, 5348, 5346, 5349, 5347 and 5350, Round Numbers 569/FB-12 Thru 574/FB-17, were launched from Tula Gate, White Sands Missile Range (WSMR). New Mexico, at 0917:04, 0917:08, 0917:13, 0917:17, 0917:22 and 0917:26 MST, 17 Feb 84. The scheduled launch times were 0900 MST with a 4.5 second separation.

DISCUSSION

Mateorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations
 - a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m³), wind direction and speed, and cloud cover were made at the Tula Gate Met Site at T-0 minutes.
- (2) Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

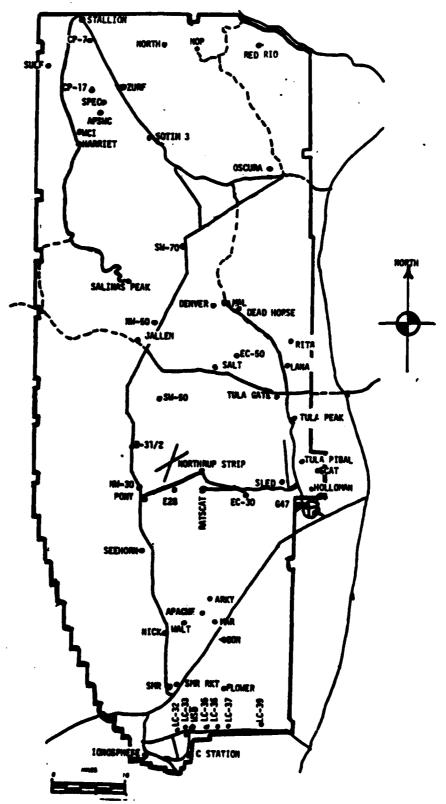
Tula Gate 950 Meters Mal 2000 Meters

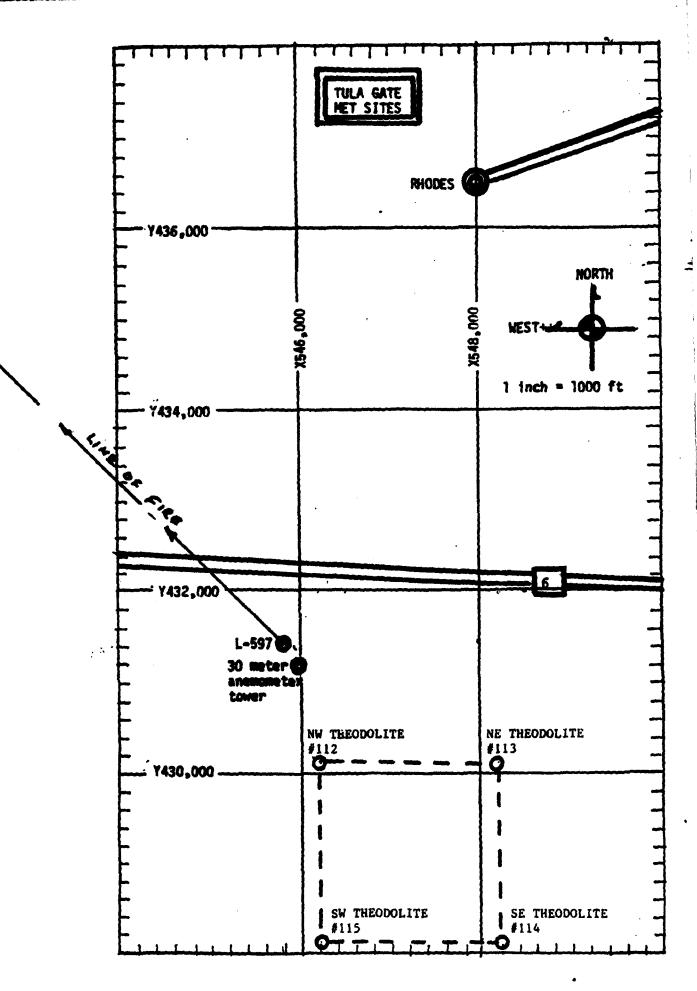
(2) Air structur data (rawinsonde) were collected at the following Het Sites.

SITE AND TIME

RITA 0715 MST LANA 0730 MST RITA 0917 MST LANA 0917 MST

WSMR METEOROLOGICAL SITES





PPOJECT SURFACE OBSERVATION

TABLE 1						V ,	STATION Tula Gate	la Gate		
DATE 17	Feb MyrTH	84 VEA:	; •			~	X= 545.944.89	1	Y=431 158 70 H= 4102 47	4102.47
TIPE II S II	PRESSUPE mbs	PRESSUPE TEIPERATURE		DEW POINT OF OC	PELATIVE HUMIOITY X	E::137 ga/m	DI RECTION degs In	HIND SPEED kts	DIRECTION SPEED CHARACTER degs In kts kts	VISIBIL- ITY
0917	864.2	15.2	2	7.1	32 ·	1428.2 142.83	190	11		+0+
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CIONDS	1 LAYE	A:T TYPE HGT		
	1 3rd	11.77		
	ا ا	HGT		
	d LAYE	TYPE		
	2nc	AMT		
	હ	HGT		
	t LAYE	TYPE		
	ls.	AMT		
	OBSTRUCTIONS	TO VISIBILITY AMT TYPE HGT		

PSYCHROYETRIC CONPUTATION	0917	ORY GULB TEIP. 15.2	HET BULB TEIP. 7.1	KET BULB DEPR. 8.1	DEW POINT -1.4	
TATION						

RELATIVE HUMID.

TABL	Ε	2	

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 17 Feb 1984

SITE: Tula Gate

TIME: 0917 MST

WSTM COORDINATES:

X= 545,944.58

Y = 531,158.70

4,102.47

SITE: Mal

TIME 0919 MST

WSTM COORDINATES:

X = 509,421.05

Y = 497,563.78

4,133.09

LAYER MIDPOINT	DIRECTION	SPEED	LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS	METERS AGL	DEGREES	KNOTS
SURFACE	290	12	SURFACE	200	10
150	226	12	150	165	21
210	230	13	210	165	24
270	237	10	270	170	26
330	222	13	330	170	28
390	218	13	390	170	29
500	218	16	500	175	29
650	220	14	650	170	28
800	218	16	800	175	31
950	224	26	950	170	36
1150			1150	165	35
1350	•		1350	165	39
1550			1550	170	44
1750			1750	175	52
2000			2000	180	74

pilot-balloon observation.

Data obtained from a Double Theodolite Tracked Data obtained from a Single Theodolite Tracked pilot-balloon observation.

AIMING AND T-TIME COMPUTER MET MESSAGES 17 February 1984

RITA 0715	MST	LANA 0730 MST	
METCM1332		METCM1331062	
171430128			
00302008	28290864	171450127864	
		00320007 2828086	•
01319023	28360854	01324019 2839085	4
02355031	28420829	02347034 2847082	9
03368028	28180790	03369031 2821079)
04376030	27740743	04380035 2778074	3
05407044	27320698	05398046 2736069	9
06409058	27030656	06406059 2704065	5
07413062	26750616	07408070 2677061	5
08422067	26490577	08414074 2656057	3
09421066	26060541	09417073 2610054	2
10425068	25590507	10418074 2566050	7
11426059	25170474	11424075 2524047	4
12426085	24590427	12423087 2462042	3
RITA 0917	MST	LANA 0917 MST	
METCM1332	062	METCM1331062	
121400100			

RITA 0917	MST
METCM1332	062
171630128	864
00320015	28790864
01401013	28640854
02392020	28400829
03395027	28080790
04373028	27700743
05383035	27250698
06403052	26890656
07416067	26790615
08421066	26480577
09432074	26030541
10419077	25580506
11424078	25200474
12432101	24740427

LANA 0917	MST
METCM1331	062
. 171630127	864
00373012	28780864
01353014	28630854
02379023	28360829
03393026	28020790
04383028	27600743
05388035	27210698
06398055	26890655
07412073	26710615
08420071	26420577
09420079	25970540
10418087	25520506
11419093	25160473
12429104	24590427

STATION ALTITUDE 4126.74 FEET PSL 17 FEB. 84 L715 "AS MS? ASCEMSION NO. 7

SIGNIFICANT LEVEL DATA 0480210007 PITA TABLE 4

6E0DETIC COORDINATES 33.18295 LAT DEG 106.15114 LON DEG

REL. HUP PERCENT		
FRATURE DEWPOINT CENTIGRADE		
TEPPI AIR DEGREFS	44444444444444444444444444444444444444	
CLONETRIC ALTITUBE MSL FEET	4196.7 5673.5 9666.6 12298.3 14173.4 14173.4 14173.4 14173.4 14173.4 14173.6 14733.6 14733.6 14733.6 14733.6 14733.6 14733.6 14733.6 14733.6 14733.6 1	
Pressure Pillibars	0.000000000000000000000000000000000000	

٠,	STATION ALT. 17 FEB. B4 ASCENSION N	17UBE 41 0. ?	36.74 FEET (715 "RS M	T * S1.	-	UFFE AIR DAT 0480210007 PITA TABLE 5	4 T T D
• .	GEOMETAIC Altitude MSL FEET	PRESSURE PILLIBARS	TEMPE Al ^r Begries C	ERFIURF DEWPOINT CENTIGRADE	NEL.HUM. PERCENT	PENSITY GA/CUBIC AFTER	SPEED O SOUND KNOTS
	781			- 0-		4	
	4500.0	854.4	10.1	-11.3	0.0°	1040.5	656.1
	000		ė.	=	19.3		÷
	ė	823.7	•	•	19.8	•	•
	÷.	3. S.	o «	11.8	20°5	491.0	
		779.0	•	g pe	0.00	3 40	: <
	: :	764.6		12	21.3		: -
		750.5	•	5.	21.7	_	
	$\overline{}$	_	•	16.	22.0		÷
	÷	•	5. 0	17.	22.4	•	•
	ċ	200.	~	۰	22.7	2	٠.
	~ ~	4.969	٧. ٣ ا	-19.2	7.22	2.69.	643
	: -	670.2	- ^		76.7	2 2	•
		657.5	-2.9	-22-9	9.66	847.2	9
	: :	645.0	-3.7		18.6	~	39.
		632.7	9.4-		24.1	20	
	<u>.</u>	9.029	-5.5	_	32.7	~	637 £ 6
	6	6 P 8 . 6	•	_	29.0	296.3	•
	_	596.9	•	•	25.3	781.7	635.4
	1.500.0		•	_	17.2	766.9	•
	•	274.0	, a		***	* * * * * ·	•
	: :	551.6	-11.3	• •	16.7	733.6	
		540.7	. ~		18.0	723.0	
	3	510.0	-14.1	_	19.3	712.6	
	÷	519.5	-15.6		20.6	702.4	625.3
	18000.3	509.2	-17.0	-33.7	21.8	692.3	623.6
	• •	1.667	-18.4	2.91-	23.3	682.4	•
	<u>.</u>	0.00	-19.7	6.5	•	621.9	620.3
	0000	2 9	0.17-	9.0		-	•
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	1500	2	-25.7			10	
	22000.0	-	5			0	=
	2500.	22	•		•		Ş
			۰		•	Э	

1.000183 1.000179 1.000174

229.4 231.3 233.3 235.1

.000171

236.8 237.2 237.4

236.9 237.1

.000194

000188 .000187 .000163 .000163 .000159 .000156

.000152 .000149 .000147

.000140 .000140 .000137 .000133

1.000254 1.000241 1.000237 1.000239 1.000226 1.000219 1.000219 1.0002019 1.0002019 1.0002019

140.0 196.3 196.3 205.3 205.0 205.0 207.0 227.0 227.0 220.4 220.4 220.4 220.4 220.4 220.4 220.4 220.4

1

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The second second

GEODETIC COORDINATES 33.18295 LAT DEG 106.15114 LON DEG

REFRACTION INDEX Of

SPEED

DIRFCTION DEGREES(TN)

WIND DATA

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GEODETIC COORDINATES 33.18295 LAT DEG 106.15114 LON DEG 1.000126 1.000124 1.000122 1.000119 1.000117 REFRACTION 90.5 73.4 70.0 SPEED Knots VIND DATA DIRECTION SPI DEGREES(TN) KN 246.7 246.2 249.6 251.1 SPEED OF 605.9 604.5 602.5 601.2 599.6 598.6 SOURB TABLE 5 Con't UPPFR A 1R BATA 0480210007 551.0 561.0 561.5 561.5 534.5 515.7 GR/CUBIC NETER REL.HUM. DENSITY PERCENT GN/CUBIC AILCIUARS DEGRIES CENTIGRADE -44.6 -46.7 -48.0 -59.1 -51.2 TEMPERATURE STATION ALTITUDE 4126.74 FEET "SL 17 FEB. 84 C715 "RS MST 4.25.25.25 PRESSURE 356.5 379.7 379.7 363.5 363.5 ASCENSION NO. GEONETRIC ALTITUDE PSL FEET P 240000 245000 250000 255000 255000 265000 270000

STATION ALTITUDE 4786.74 FFET 45L 17 FED. 84 0715 HAS MS1 ASCENSION NO. 7

MANDATORY LEVELS 0480210007 P17A

TABLE 6

6E0DETIC COMPINATES 33.18295 LAT DEG 106.15114 LON DEG

PRESSURE	GE OPOTLWIIAL	TEN	PEDATURE	PCL. 104	0817	DATA
HILLIPAFS	fer	Prentes	AEES CENTIONALE		DESCES(TR) XR0	X X X X X X X X X X X X X X X X X X X
650.0		10.5	-12.1		10.0	12.3
6.06.		4.5	-12.3	2	206.0	28.9
75′.0	1031.	4.6	-15.4	22.	211.4	29.7
700.0		3	-10.0	23.	220.0	43.5
65,0	•	-3.4	-23.6	=	220.4	7.09
60°-0		-7.1	-23.1	26.	234.6	63.7
551.0		-11.5	-31.6	17.	236.8	67.1
20 ú °0	·	-18.3	-34.2	23.	230.0	6.9
45.0		-24.5	-34.8	37.	237.1	74.0
407.0		-31.0	-43.8	27.	247.2	83.3
15.0		-37.6	-51.6	21.		

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	STATION ALTITUDE 4173.44 FEET "SL	~	ASCENSION NO.
	**	~	•

1 LEVEL DATA 120007	
SIGNIFICANT L 0480320 LANA	TABLE 7

GEODETIC COORDINATES 33-13510 LAT DEE 106-15446 LON DEE

PERCENT.	•	21.0	÷	2		•	~	•		•	•		;	•	•	
RATURE DEVPOINT CENTIGRADE	-9.3	-10.5	š	-12.1	Ē			i	3		•	Ŀ	-39.6	~	-43.8	
TEMPERATURE ASS. PERP.	~	10.0	11.6	6.3	-	-4 °7	-5.8	•	-7.2	-	•	j	=	30.	-31.8	m
GEOMETRIC: ALTITUDE : HSL FEET	,	2	9	2	5	9	-	3	•	-	5	•	•	3812.4	4.087.9	4628.3
PPESSURF PILLIBAR		50.0	•	•	0	٠,	~	~	•	'n	0	-	0	ó	~	~

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=	3	
3	<u>s</u>	
2	CPSP I'MS MST	
5	_	•
<u>_</u>		
3		
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DATA	007	
n Ain	103200	⋖
3413	70	LAR

GEODETIC COORDINATES 33,13510 LAT DEG 106,15446 LOW DEG

TABLE 8

MADOUS BEARER (TM) KNOTS REFACTION (MATERIAL MATERIAL MAT		TENPERATURE RELABORA P	TEMPERATURE RELATION. P	RAIURE RELANDM. P	EL.HUM. P	4 5	ENSITY SF N/CUBIC 1	PEED OF SOURD	EIRE DE	PEE	INDEX
655.4 190.7 10.7 10.0000000000000000000000000000	6 55.4 190.7 10.7 1.0000 6 556.4 190.7 10.7 1.0000 6 556.0 202.6 23.1 1.0000 6 556.0 202.6 23.1 1.0000 6 556.0 202.6 23.1 1.0000 6 556.0 202.6 22.7 32.0 1.0000 6 556.0 22.7 32.0 1.0000 6 556.0 22.7 32.0 1.0000 6 556.0 22.7 2 57.0 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 67.2 1.0000 6 556.0 22.7 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 22.5 2 7.7 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.0000 6 556.0 2 22.5 2 81.1 1 1.00000 6 556.0 2 22.5 2 81.1 1 1.000000 6 556.0 2 22.5 2 81.1 1 1.000000000000000000000000000000	ES CENTIGRADE	DEGREES CENTIONALE	ENTIGRADE.			N W R	2100	EGREESCTN	KNOTS	
656.4 199.7 10.7 10.8 1.000 1.	6 5 5 5 5 5 6 5 6 7 6 7 6 7 6 7 6 7 6 6 8 7 7 7 20 6 7 7 6 7 8 7 7 7 10 00 00 00 00 00 00 00 00 00 00 00 00	4.3 9.2 -9.3 26.	9.2 -9.3 26.	9.3 26.	•		2	~	9	•	00025
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	UIND DATA DIRECTION SPEED DEGREES(TN) KNOTS	
		5.7
907 Son t	376	571.8 605.7 562.6 604.1
0426320007 LAWA TABLE 8 Con't	PERCENT DEWSITY SPEED OF PERCENT GA/CUBIC SOURD RETER KROTS	841. 862.
	PERCENT.	29.3
11 PSL HS T	PRESSURE TEMPERATURE ALPOINT ALLIBARS DEGREES CENTIGRADE	-43.4
4173.44 FEET FSL [735 tas 851 7	A1. A1. DEGRIES	-31.4
111606 412	DMETRIC PRESSURE TITUDE L FEET MILLIDARS	96.
Alien Altituee Feb. 84 Cension No.	OMETRIC 717606 1. FEET	24500.0

MANDATORY LEVELS 0480320007 Lana

GEODETIC COOPDINATES 33.13510 LAT DEG 106.15446 LON DEG

TABLE 9

STATION ALTITUDE 4173.44 FEET PSE 17 FEB. 84 G730 PRS MST ASCENSION NO. 7

PRESSURE	GEOPOTENTIAL	758	PERATURE	REL. HUM.	10117	ATA
ILL IBA "S	FEET	9169168	GREES CENTIONALE		DEGREES(TR) KNOTS	KNOTS
9. 5%		10.9	-10.5		194.3	12.3
200		7.0	-11.4	22.	205.4	31.2
75.		5.0	-14.4	23.	212.7	34.0
700		-	-18.9	24.	224.1	45.1
650.0	•	1.8-	-22.9	20.	227.4	63.7
0° 09	•	7	-24.3	22.	231.6	70.5
550.0	•	-11.1	-30.6	18.	234.4	72.2
50.08		-17.5	-33.1	24.	236.6	74.7
459.0	••	-24.1	-33.1	43.	235.4	1.18
40°0	1 23775.	-36.7	-42.5	30.		

4186.74 FEET FSL C917 "RS MST	
4186.74	•
AL 7111896	# #0:
STATION A	ASCENSION NO.

SIGNIFICANT LEVEL DATA 0480210808 917A

6E0DETIC COORDINATES 33.18295 LAT DEG 106.15114 LON DEG

TABLE 10

REL.MAN. PERCENT		÷	•5	;	29.0	;	•	-		,	š	š	ż	=	7	ė	2	_	÷	~	~
	CENTIGRADE	-9.0	**•	å	-12.9	;		÷		;	-28.8	32.	;	š	š		6	ċ	4	6	~
		;		•	3.4	•	•	•	•	•		•	=	-	_	Ñ				36.	-
ALT 17 60	HSL	4186.7	•	6	8377.0	53	1239.	1694.	7226.	1032.	ë.	5576.	3440.	.1790	P338.	7	23	7	2	6348	2
PRESSURF	PILLIBARS	:64.3	ě	ė	740.5	ċ	•				4.662	ċ	ë	÷	~	ď.				1.59.4	-

		111006 41	26.74 FEC	15 PSL 88 1		UPPER AIR DATA 0488210008 817A	7 8 7 8		6600E11C	35.16295 LAT BEG
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10 10 10 10 10 10 10 10	5500.0	953.8	0	-10.0	23.5	2	•	•		•
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765.5 5.4 -11.5 22.7 997.6 698.5 215.7 22.7 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200	794.1	7.6	о.	75.7	2796	•	-	•	•
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.0 459.4 -22.3 -36.2 26.9 637.9 617.1 241.1 75.4 10 449.7 -23.7 -7.4 26.6 628.1 615.4 243.2 72.6 10 440.6 -25.C -48.7 26.4 618.8 243.8 243.8 84.6 10 452.6 -25.2 -40.0 26.1 608.9 612.1 241.6 117.4 10 473.8 -76.7 -42.3 21.0 595.5 613.5 244.6 93.3 10 473.8 -76.7 -43.6 21.0 576.1 609.8 245.9 88.2 1.			-21.7	-35.4	2	649.5				000
.0 449.7 -23.7 -17.4 26.6 62P.1 615.4 243.2 72.6 1. 0 440.6 -25.C -18.7 26.4 618.8 243.8 84.6 1. 0 431.5 -26.3 -40.0 26.1 60P.9 612.1 241.6 117.4 1. 10 422.6 -25.2 -41.0 21.0 595.5 613.5 241.4 129.0 1. 10 413.8 -76.7 -42.3 21.0 584.7 611.7 244.6 93.3 1. 10 405.2 -28.2 -43.6 21.0 576.1 609.8 245.9 88.2 1.		59.	-22.3	-36.2	;	637.9				9
.0 440.6 -25.C -78.7 24.4 618.4 613.8 243.8 84.6 1. .0 431.5 -26.3 -40.0 24.1 60P.9 612.1 241.6 117.4 1. .0 422.6 -25.2 -41.0 21.0 595.5 613.5 241.4 129.0 1. .0 413.8 -76.7 -42.3 21.0 584.7 611.7 244.6 93.3 1. .0 405.2 -28.2 -43.6 21.0 576.1 609.8 245.9 88.2 1.	•	.	-23.7	7.4.	į	627.1		-	•	1.000141
2000.0 431.5 -24.3 -40.0 24.1 60Ptp 612.1 241.4 117.4 1. 2500.0 422.4 -25.2 -41.0 21.0 593.5 613.5 241.4 129.0 1. 3000.0 413.8 -24.7 -42.3 21.0 584.7 611.7 244.6 93.3 1. 3500.0 405.2 -28.2 -43.6 21.0 576.1 60PtB 245.9 88.2 1.	-	60.	-25 · C	;	j	•		•	•	8
2580.0 422.6 -25.2 -41.0 21.6 593.5 613.5 241.4 128.0 1. 3800.0 413.8 -26.7 -42.3 21.0 584.7 611.7 244.6 93.3 1. 3500.0 405.2 -28.2 -43.6 21.0 576.1 609.8 245.9 88.2 1.	2000-	-	-26.3	60	•	•		-		1.000137
3600.0 413.8 -26.7 -42.3 21.0 584.7 611.7 244.6 93.3 1. 3500.0 405.2 -28.2 -43.6 21.0 576.1 609.8 245.9 88.2 1.	2500.	25.	-25.5	=	Ē	•		•	 E:	500
3500.0 405.2 -28.2 -43.6 21.0 576.1 609.8 245.9 68.2 1.	3000	13.	-26.7	77	Ē,	•	;		'n	8
	3200.	5	-58.5	'n	•	•	:	•	·	1006

6600ETIC COORDINATES 33.16295 LAT DEG 106.15114 LON DEG	JRDEX OF REFRACTION	1.000127 1.000125 1.000121 1.000121 1.000119
6600ETI 33. 106.	SPEED KR01S	68.70 109.7 109.6 107.8
	F UIND DATA DIRECTION SPEC DEGREES(TN) KNOI	246.0 246.0 245.0 245.0 245.0
	7 SPEED OF 1C SOUND KNOTS	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.
04602 10608 04602 10608 011A TABLE 11 Con't	58 / C 68 11 16 16 16 16 16 16 16 16 16 16 16 16	2000 2000 2000 2000 2000 2000 2000 200
-	REL.BUM.	25.55 25.55
15 * SE	ALTITUDE ALESSONE TEMPERATURE ALTITUDE ALT PERFORMENT ALT DESIGNATIONS DEGR. ES CENTISCADE	# 0 = M + 4 0
4116.74 FEET *SL G917 188 RST	7Eng 71, 81, 81, 81, 81, 81, 81, 81, 81, 81, 8	
1114	PRE 5368E	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
STATION ALTITUDE 17 FED. 84 55CEMSTON WO.	610METRIC ALTITUDE PSL FEET	24500.0 24500.0 25500.0 25500.0 26500.

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STATION ALTITUDE 4186.74 FEET "SL 17 FED. 84 G917 FES MST ASCEMSION NO. 8

FAWDATORY LEVELS 0480218008 6.17A

6E0DETIC COMPINATES 33.18295 LAT DEG 106.15114 LON DEG

TABLE 12

PRESSUAL GE	GEOPUTENTIAL	TEN	ERATURE	Et. mun	2 17	PA 1A
MILLIPAFS	1131	AIR DEGREES	AIR DEVPOLAT F. Grees Cfatigrade	ENCENT	DEFECTION SPI	I SPEED I) KROTS
65.0	. 1997	12.2	7.6-	21.	193.1	16.0
400	6296.	1.1	-10.6	22.	222.7	24.5
750.0	6 030.	7.9	-12.5	. 22.	211.1	25.1
700	9855.	•••	-14.7	34.	215.1	37.1
92.1.0	11789.	9.4-	-18.4	33.	227.9	55.7
£04	13841.	7.9	-28.1	:	236.6	63.1
55°.0	14052.	-11.8	-32.4		242.2	78.4
501.0	18416.	-18.3	-34.7	. 22.	236.7	76.1
457.0	,0960,	-23.6	-37.4	27.	243.1	72.5
0° j07	23766.	- 29.1	7.77-	21.	246.4	87.9
95n.0	. 29892	-37.9	-51.6	22.		

SIGNIFICANT LEVEL DATA	04 003 2000 8	LAWA	TABLE 13
	STATION ALTITUDE 4173.44 FEET MSL	17 FEB. 84 0917 MRS MST	ASCENSION NO. B

GEODETIC COORDINATES 33.13510 LAT DEG 106.15446 LON DEG

REL. NUR. PERCENT	
TENPERATURE IR DENPOSAT REES CENTIGRADE	
TEMPE AIR DEGREES	
GEONETRIC ALTITUDE MSL FEET	4173.4 5803.4 1248.4 1355.6 1355.6 1477.6 1967.6 22376.7 22376.1 2675.5 25176.1
PRESSURF	MOWOLOWA A A A A A A A A A A A A A A A A A A
	•

ASCENSION NO.	•							•	. 15440 LOW DEE
					TABLE 14				
SE ONE 1 R 1 C	PRESSURE	7	MPERATURE	BEL.NUM.	ENSITY	SPEED OF	C SEC	ATA	110 EX
ALTITUBE MSL FEET	HILLIBARS	DEGREES	CENTIGRADE		<u>_</u>	KEOTS	DEGREES (7N)	KNOTS	OF REFRACTION
4173.4	864.3	;	•		j	3	210.0	~~	-0002
500	124	12.7	-9.6	19.7	1039.7	659.1	213.2	14.2	1.000245
5000.0	8.8	-		•		5	216.6		.0002
5500.0	853	•	÷	÷	×	3	218.9	•	.0002
0.0004	808		-11.8	?	÷	2	250.5	•	-0002
6500.0		7.0	5	'n	•	652.5	250.2	•	-0002
7000.0	778	•	-12.6	š	971.1	651.0	218.0	•	1.000278
7500.0			'n	÷	957.4	5	217.4	•	-0005
8000,0	476	•	-13.6	;	943.9	3	215.9	•	2000
8500.0	735	•	;	÷	930.7	3	216.3	•	.0002
0.0004	727	10	•	ö	917.6	Ş	217.0	0	1.000214
9500.0	902	•	-15.4	÷	904.9	543	217.9	8	-0005
10000	698	1.6	16.	ż	891.6	642	218.6	•	-0005
10500.0		-2.5	-16.5	÷	877.6	641	220.3	•	1.000204
11000.0		-3.4	2	ä	863.6	079	221.8	•	8
11500.0		7.7	•	÷	820.3	639	224.3	~	1.000197
12000.0	719	•	-	'n,	836.9	637	256.2	60.7	.0001
12500.0	631	•	0 · 0 ·	ż,	123.7	9 2 9	258.7	66.5	.000
13000.0		•	7-56-4	÷,	807.5	636	230.0	75.4	000
13500.0		-5.9	2.82-	å.	8-167	637	232.6	7.4.6	-
14000.0		-7.0	-29.4	;	7.9.7	635	233.0	75.8	5
14500.0	584	7.8-	-30.7	;	768-1	634	234.9	75.0	1000
15000.0	573	D (-31.0	;.	756.6	632	235.8	73.3	
15500.0		3 (; .	7.62.	200	230.5	2.5	
1.0000	366	7.71-	-32.0	•	7.54.7	670	236.5	2.00	
	^ •	9.5.	,, ,	٠.	0.627	770	*****		
0.0007		۸,	7,	i		970	2.06.2		
1200.0	2 6	5.01.	7	٠,		*20	6227	6.78	
18000.0		7.71-	71	ġ,	8.740	770	232.5	9	
8500	965	0.41-		•	9.289	621	6.952	90	000.
	104		?;	:.	0.270		7926	• • •	
0.00000		-61.5	?;;	٨,	A-000	978	255.4	***	4 0000
20000	904		۶ (٠,	60.40	-	430.6	A . C .	1000
20200-0	458.	-22.9	?	n (-	6 16	237.5	~ 1	9
•	677	-54.5	3	š	9-829	614.	238.9	97.3	1.000141
1500.	430	-25.6	-30.8	š	~	613.	240.5	^	.000
9	£3	-27.0	-41.0	Š	9	611.	241.3	98.1	.000
2500.	421.	28.3	•	;	0	609	242.0	6	_
3000		-29.5	•	4		98.	241.0	104.4	1.000172
23500.0	•	-30.5	-44.3	m	79.	ζ,	241.7	5	_

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GEODETIC COORDINATES 33,13510 LAT DEG 106,15446 LON DEG	INDEX OF REFRACTION	1.000127 1.000125 1.000121 1.000119
6600671 33.	TA SPEED KNOTS	118.2 142.0 174.3 176.2
	BIRECTION SPE DEGREES(TR) KNO	241.6 241.0 240.5 241.2
SATA BB Con't	SPEED OF SOUND KNOTS	606.1 604.8 604.2 899.3 899.3
UPPFR AIR BATA 0480320008 LANA TABLE 14 Con't	ENSITY FA/CUBIC METER	569. 550.7 551.0 524.0
	PERCENT .	00 00 00 00 00 00 00 00 00 00 00 00 00
T 75L	TEMPERATURE AL DEMPOSENT DEGRÉES CENTIGRADE	444400 444400 444400 44400 44400 44400
73.44 FEET PSL 0917 NRS MST	TERP A19 DEGRTES	1200 1200 1200 1200 1200 1200 1200 1200
717UDE 417 0	PRESSURE MILLIBARS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STATION ALTITUPE 417 17 feb. 84 Ascension no. 8	GEONETRIC ALTITUDE MSL FEET	24006.0 24500.0 25000.0 25500.0 26000.0 26500.0

MANDATORY LEVELS	0480320008	LANA	TABLE 1
	4173.44 FEET mst	0917 HRS MST	•
	STATION ALTITUDE	17 feb. 84 0917 MRS MST	ASCENSION NO.

THE PROPERTY OF THE PARTY OF TH

173.44 FEET #SL 0917 HRS HST	#SL 5.7		0480320008 Lana	8		6E0DETIC C00 33.13510
			TABLE 15			106.15446
PRESSURE GEOPOTENTIAL ILLIBAPS FEET	SPOTEMTIAL FEET		TEMPERATURE AIR DEUPOINT DEGREES CENTIGRADE	AEL.HUM. Percent	NIND DATA DIRECTION SI DEGREES(TN) KI	BATA SPEED XNOTS
850.0	.630.	12.1	-10.1	20.		15.1
800.0	6280	7.6	-12.0	23.		25.9
750.0	8010.	3.5	-13.6	28.	215.9	27.5
700.0	9829	2.7	-15.8	32.		34.6
650.0	11755.	6.4	-18.0	35.		57.4
0.009	13812.	-6.6	-29.0	15.		75.3
550.0	16018.	-12.3	-32.6	16.		75.1
500.0	18378.	-18.8	-35.6	21.		86.3
450.0	20927.	-24.1	-38.4	25.		97.3
400.0	23706.	-30.6	-44.0	23.		114.1

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